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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,985	08/15/2006	Yuejun Yan	SZYL-00101-NUS	8851
33794 MATTHIAS SO	7590 08/14/2007 CHOLL	EXAMINER		
14781 MEMOR		JONES, STEPHEN E		
SUITE 1319 HOUSTON, TX 77079			ART UNIT	PAPER NUMBER
			2817	
				,
			NOTIFICATION DATE	DELIVERY MODE
			08/14/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)				
Office Action Summer	10/597,985	YAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Stephen E. Jones	2817				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the o	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
· _ ·	 s action is non-final.					
· <u>=</u>	-					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>12-28</u> is/are pending in the applicatio	n.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) 12,14,16-19,21,23,25 and 27 is/are re	S)⊠ Claim(s) <u>12,14,16-19,21,23,25 and 27</u> is/are rejected.					
7) Claim(s) <u>13, 15, 20, 22, 24, 26, and 28</u> is/are	⊠ Claim(s) <u>13, 15, 20, 22, 24, 26, and 28</u> is/are objected to.					
8) Claim(s) are subject to restriction and/c	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10) \boxtimes The drawing(s) filed on $8/15/06$ is/are: a) \boxtimes ac		Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correc						
11) ☐ The oath or declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
 Certified copies of the priority document 	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority document	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea	• • • • • • • • • • • • • • • • • • • •					
* See the attached detailed Office action for a list	of the certified copies not receive	∍d.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) 	5) Notice of Informal F					
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 12, 14,16, 18, 19, 21, 23, 25, and 27 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Mazzochette et al.

Mazzochette (e.g. Figs. 3-4) teaches an attenuator including: a base substrate (14) having the attenuator circuit mounted on its surface (Claim 25); an input and output (16, 18); a 1st film thermistor (R2) and a second film thermistor (R3); the ends of the thermistors can be arbitrarily labeled as top and bottom in the same manner as the present invention; the 1st thermistor top and bottom ends are connected to the input and output respectively; the 2nd thermistor top and bottom ends are connected to the bottom end of R2 through the output 18 and to the ground respectively (Claim 1,19); the 1st film thermistor can have a negative temperature coefficient and the 2nd can be positive (e.g. see Col. 5, lines 25-26) (Claims 14, 16); inherently the functional characteristics of the attenuator must be selected to be useful (Claim 18); the underside and perimeter sides of the 2nd film resistor are connected to the 1st film resistor electronically through the output (Claim 21, 23); and the product by process limitations of masking technology of Claim 27 are not patentable since only the final product

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structure is patentable in an apparatus claim and the Mazzochette device meets all of the structural requirements of the claim.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mazzochette et al.

Mazzochette teaches an attenuator as described above, but does not explicitly teach that the 1st thermistor has a positive temperature characteristic (TCR) and the 2nd has a negative characteristic.

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Mazzochette also teaches that the TCR's of the resistors can be selected to obtain a good match VSWR over temperature (e.g. see Col. 6, lines 3-9).

It would have been considered obvious to one of ordinary skill in the art to have selected the1st and 2nd thermistors to have been positive and negative respectively, especially since the TCR characteristics are recognized by Mazzochette as result effective variables for controlling VSWR over temperature thus the specific characteristics of the thermistors would have been a mere optimization of the attenuator to provide a good match over temperature for the selected use of the device and thus providing optimal performance of the device.

Allowable Subject Matter

6. Claims 13, 15, 20, 22, 24, 26, and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen E. Jones whose telephone number is 571-272-1762. The examiner can normally be reached on Monday through Friday from 9 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

PRIMARY EXAMINER

SEJ